

# CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST

**ENV-1C**  
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Project Name:	Date:	Climate Zone:
Project Address:		Conditioned Floor Area:

**General Information**

Building Type: ☐ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room

☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☐ Conditioned Spaces ☐ Unconditioned Spaces

☐ Skylight Area for Large Enclosed Space  $\geq 8000 \text{ ft}^2$  (If checked include the ENV-4C with submittal)

Phase of Construction: ☐ New Construction ☐ Addition ☐ Alteration

Approach of Compliance: ☐ Component ☐ Overall Envelope TDV Energy ☐ Unconditioned (file affidavit)

Front Orientation: N, E, S, W or in Degrees: \_\_\_\_\_<sup>0</sup>

## FIELD INSPECTION ENERGY CHECKLIST

OPAQUE SURFACE DETAILS														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Tag/ ID	Assembly Type	Area	Orientation N, S, W, E	Standard U-Factor	Joint Appendix U-Factor	Joint Appendix Table	Cavity R-Value	Exterior R-Value	Interior R-Value	Exterior Furring	Interior Furring	Conditions Status	Pass	Fail <sup>2</sup>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.  
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance.

FENESTRATION SURFACE DETAILS												
1	2	3	4	5	6	7	8	9	10	11	12	
Tag /ID	Fenestration Type	Surface Area	Orientation N, S, W, E	# of Panes	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC Source	Overhang	Conditions Status	Pass	Fail <sup>2</sup>
									<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

3. 1. See Instructions in the Nonresidential Compliance Manual, page 3-96.  
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

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Project Name:	Date:	Climate Zone:
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*(Note if the roofing product is not CRRC certified, this compliance approach cannot be used). Go to Overall Envelope Approach or Performance Approach.*

CHECK APPLICABLE BOX BELOW IF EXEMPT FROM THE ROOFING PRODUCT “COOL ROOF” REQUIREMENTS:	Pass	Fail <sup>1</sup>	NA
<input type="checkbox"/> Roofing compliance <u>not</u> required in Climate Zones 1 and 16 with a Low-Sloped. 2:12 pitch or less.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Roofing compliance <u>not</u> required in Climate Zone 1 with a Steep-Sloped with less than 5 lb/ft <sup>2</sup> . Greater than 2:12 pitch.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Low-sloped Wood framed roofs in Climate Zones 3 and 5 are exempted solar reflectance and thermal emittance or SRI that have a U-factor of 0.039 or lower. See Opaque Surface Details roof assembly, Column H of ENV-2C.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Low-sloped Metal Metal Roofs in Climate Zones 3 and 5 are exempted solar reflectance and thermal emittance or SRI that have a U-factor of 0.048 or lower. See Opaque Surface Details roof assembly below, Column H of ENV-2C.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> The roof area covered by building integrated photovoltaic panels and building integrated solar thermal panels are exempted solar reflectance and thermal emittance or SRI. See spreadsheet calculator at <a href="http://www.energy.ca.gov/title24/">www.energy.ca.gov/title24/</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Roof constructions that have thermal mass over the roof membrane with a weight of at least 25 lb/ft <sup>2</sup> is exempt from the Cool Roof criteria below.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> High-rise residential buildings and hotels and motels with low-sloped roofs in Climate Zones 1 through 9, 12 and 16 are exempted from the low-sloped roofing criteria.			

*1. If Fail then describe on this page of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.*

CRRC Product ID Number <sup>1</sup>	Roof Slope		Product Weight		Product Type <sup>2</sup>	Aged Solar Reflectance <sup>3</sup>		Thermal Emittance	SRI <sup>5</sup>	Pass	Fail <sup>6</sup>
	≤ 2:12	> 2:12	< 5lb/ft <sup>2</sup>	≥ 5lb/ft <sup>2</sup>							
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> <sup>4</sup>				<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> <sup>4</sup>				<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> <sup>4</sup>				<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> <sup>4</sup>				<input type="checkbox"/>	<input type="checkbox"/>

1. The CRRCC Product ID Number can be obtained from the Cool Roof Rating Council's Rated Product Directory at [www.coolroofs.org/products/search.php](http://www.coolroofs.org/products/search.php)
2. Indicate the type of product is being used for the roof top, i.e. single-ply roof, asphalt roof, metal roof, etc.
3. If the Aged Reflectance is not available in the Cool Roof Rating Council's Rated Product Directory then use the Initial Reflectance value from the same directory and use the equation  $(0.2 + 0.7(\rho_{\text{initial}} - 0.2))$  to obtain a calculated aged value. Where  $\rho$  is the Initial Solar Reflectance. From the Cool Roof Rating Council's Rated Product Directory.
4. Check box if the Aged Reflectance is a calculated value using the equation above.
5. The SRI value needs to be calculated from a spreadsheet calculator at <http://www.energy.ca.gov/title24/>
6. If Fail then describe on this page of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

To apply **Liquid Field Applied Coatings**, the coating must be applied across the entire roof surface and meet the dry mil thickness or coverage recommended by the coatings manufacturer and meet minimum performance requirements listed in §118(i)4. Select the applicable coating:

☐ Aluminum-Pigmented Asphalt Roof Coating      ☐ Cement-Based Roof Coating      ☐ Other \_\_\_\_\_

### Discrepancies:

[illegible]